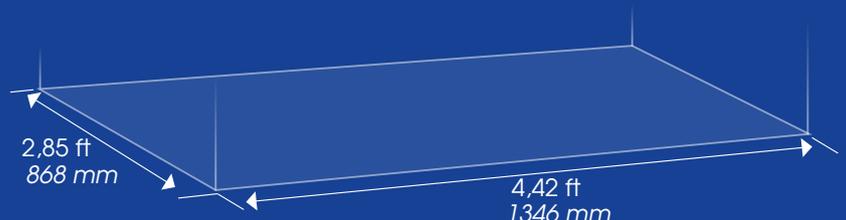
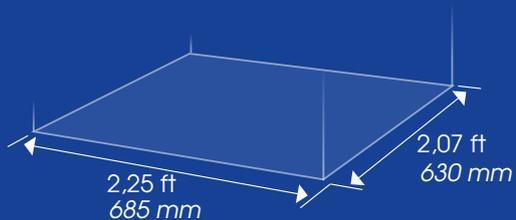


LSR 100pv-20l
LSR 100pv-200l

EMT
DOSIERTECHNIK

Servo-pneumatic metering system
with **variable** mixing ratio



0,054grams*

With the new LSR 100pv, a level of accuracy that has been virtually inconceivable with a pneumatic system to date has become the reality!

Thanks to the lower purchase price compared to a servo-electric system, you benefit from efficiency that is unrivalled on the market in this form.

The LSR 100pv therefore meets our tremendously strict standard for highly efficient and precise mechanical engineering, which is so closely linked to our business philosophy that it gave the company its name: Efficient Metering Technology.



LSR 100pv-20l

LSR 100pv-200l

Servo-pneumatic metering system with **variable** mixing ratio

The EMT system sets itself apart with the following features:

- Up to 110 g shot weight metering with no switchover point – that means:
 - Absolutely constant compression ratio while filling the screw of the mould injection machine
 - Constant mixing ratio during the entire metering process



- Stainless steel scoop piston cylinder
- **Transparent follower plates**
Air pockets can be identified immediately and unnecessary flushing is avoided
- **Flat follower plates**
Residual amount optimisation and convenient cleaning of the follower plate
- Minimum compressed air consumption = lower energy costs
- Stainless steel barrel roll in device (optional)

Since the two metering pistons can or have to move independently of each other in a system with an electronically controlled, variable mixing ratio, it is essential for a constant metering accuracy during the entire shot volume that the metering pistons travel exactly the same distance at the same speed.

Thus the key quality characteristic is the travel accuracy, meaning how large the travel deviation of the metering pistons for the A and B-component is. With the LSR 100pv, this deviation is in the range – virtually inconceivable for a pneumatic system to date – of a few tenth of a millimetre. One-tenth of a millimetre corresponds to a deviation of ***0.054 grams**. This is a completely insignificant quantity compared to the amount of mixture in the static mixer and screw of the mould injection machine.

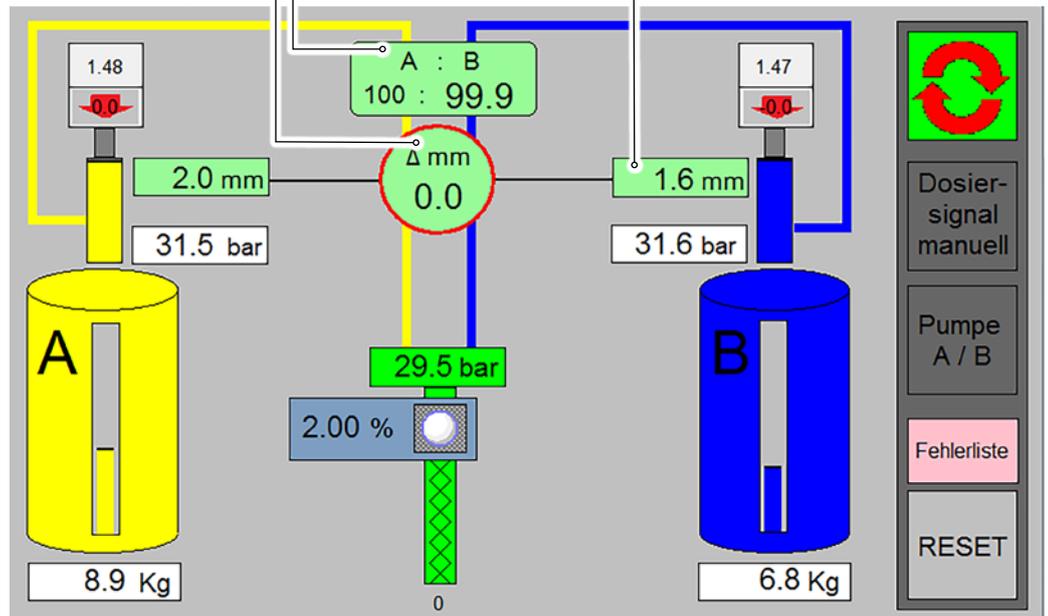
The deviation is not discernible with the naked eye and is therefore centrally displayed on the main screen. With many metering systems, a movement difference of the metering pistons is clearly visible – especially when the pistons pass a switchover point during metering.

The single-action EMT metering pistons have no switchover points during the metering phase, thereby guaranteeing perfect constant feeding of the screw in the injection moulding machine.

The mixing ratio of the respective metering stroke is calculated and displayed at the end of **each** metering stroke.

After filling the metering cylinders, the material is pre-compressed which, depending on the viscosity, leads to a different starting point of the metering pistons.

With the LSR 100pv system, the different filling level has no effect on the mixing ratio for precisely that reason.



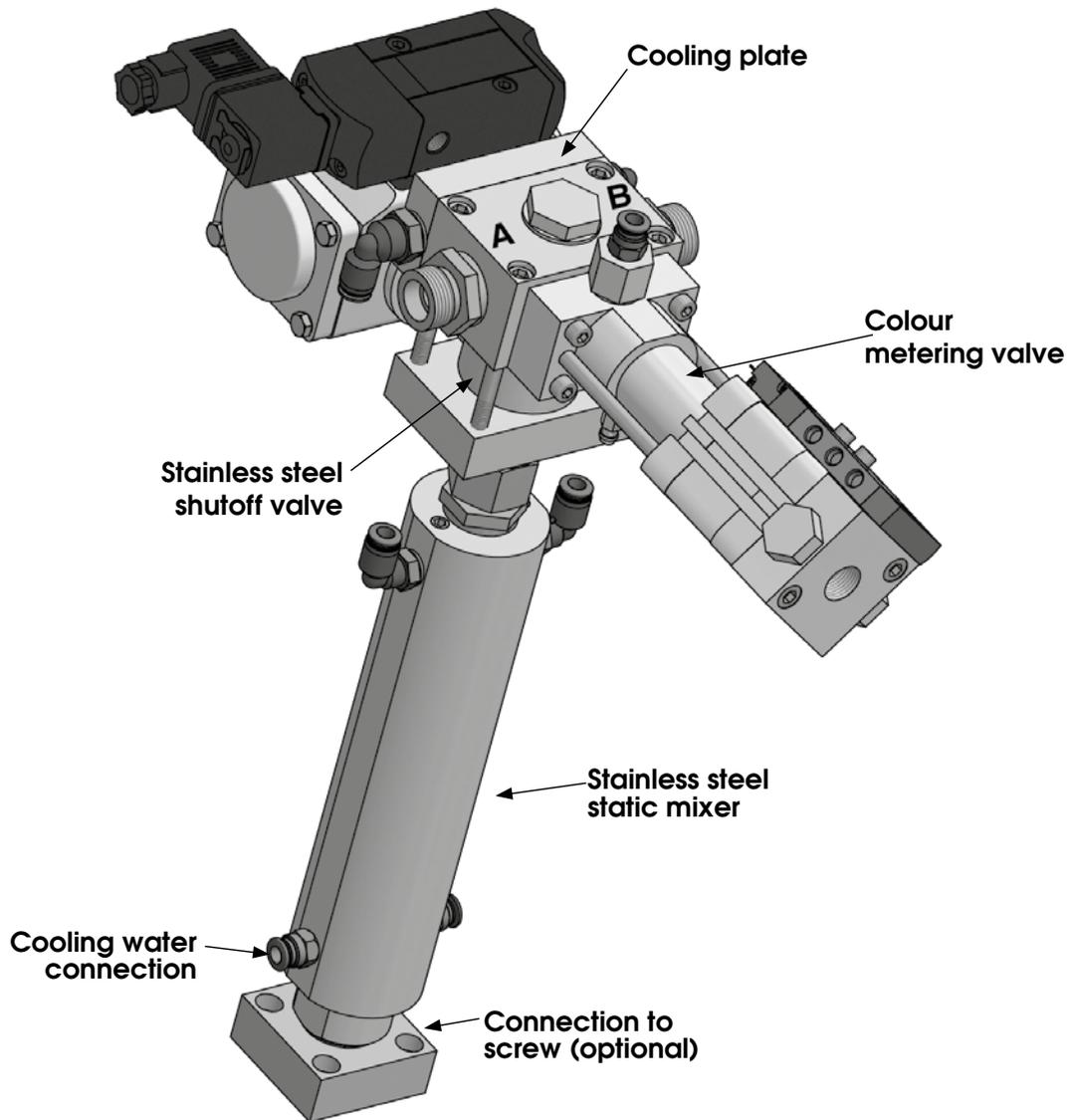
Minimum waste when changing the type of material

Since only one chamber has to be flushed, the metering cylinders need only a very small amount of material for flushing. Hoses are mounted directly on the outlet of the metering cylinder, so that there is no waste for rinsing if a separate set of hoses is used for each type of material.

Since EMT offers hoses at very reasonable price, using a separate hose set for each material generally pays off.



Mixing unit



Efficient Metering Technology

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EMT was founded in 2004 and specialises in highly efficient metering systems.

We set ourselves apart with more than 25 years of experience in 2-component processing.

EMT stands for:

- Easy handling
- Reduced mechanical components
- The best possible results

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